

IN THE CLAIMS:

The following is a replacement claim set.

1. (currently amended). A tubeless pneumatic tire, comprising:

a non-aqueous puncture sealing composition covering at least a portion of an interior surface of the tire, the puncture sealing composition comprising a fiber-free blend of:

A. a minor proportion by weight of a low molecular weight liquid rubber with a molecular weight less than about 50,000 in admixture with a tackifying or plasticizing substance, the liquid rubber having a Brookfield viscosity at 150 °F of between 20,000 and 2,000,000 cps, and

B. a major proportion by weight of a high molecular weight solid elastomer with a molecular weight greater than about 50,000 having a Mooney viscosity of from 20 to 160 ML-4 at 212 °F, and a crosslinking agent for the elastomer[[s]] and the liquid rubber in amount effective to partially crosslink the elastomer[[s]] and the liquid rubber to an extent sufficient to prevent the blend from flowing at elevated temperatures and centrifugal forces encountered in the tire in use, the blend having in a partially crosslinked state sufficient adhesion and conformability to function as a sealant in the tire,

wherein the blend includes an amount of (A) being between 10% and less than 50% by weight and an amount of (B) being correspondingly between greater than 50% and 90% by weight, based on the combined weights of (A) and (B),

wherein the gel content of the blend in the partially crosslinked state is between 15 and 60% by weight of the blend, as measured in toluene at room temperature, and

wherein the peak Mooney viscosity of the blend in the partially crosslinked state is between 15 and 55 ML at 150 °F; and

C. ground rubber [[from used tires]] in an amount between greater than 0 and 5 percent by weight of the sealant composition.

2. (previously presented). The tire of claim 1, wherein the liquid rubber is heat depolymerized natural rubber.

3. (previously presented). The tire of claim 1, wherein the low molecular weight liquid rubber is selected from the group consisting of liquid cis-polyisoprene, liquid polybutadiene, liquid polybutene, liquid ethylene-propylene-non-conjugated diene terpolymer rubber, and liquid isobutylene-isoprene copolymer rubber .

4. (previously presented). The tire of claim 1, wherein the high molecular weight elastomer is polyisoprene, wherein the polyisoprene is natural rubber, synthetic rubber or combinations thereof.

5. (previously presented). The tire of claim 1, wherein (A) is liquid heat-depolymerized natural rubber in admixture with a resin prepared from the reaction of a mineral oil purification residue and formaldehyde and with nitric acid catalyst and (B) is solid cis-polyisoprene rubber.

6. (currently amended). ~~A puncture sealing composition as in claim 1 in which~~ The tire of claim 1, wherein the tackifying or plasticizing substance is selected from the group consisting of resin esters, aliphatic petroleum hydrocarbon resins, polyterpene resins, styrene resins, dicyclopentadiene resins, and resins prepared from the reaction of a mineral oil purification residue with formaldehyde and with a nitric acid catalyst.

7-10. (cancelled).

11. (previously presented). The tire of claim 1, wherein the ground rubber is 40 mesh or finer.

12. (cancelled).

13. (previously presented). The tire of claim 1, wherein the crosslinking agent is selected from the group consisting of the following in the amounts recited:

from more than 0.5 to 2.0 parts of sulfur or sulfur-yielding curative;

from more than 0.5 to 2.0 parts of quinoid curative;

from 0.1 to 1.0 part of radical generating curative;

from 2 to 10 parts of polyisocyanate curative; and
from 2 to 10 parts of tetrahydrocarbyl titanate ester curative,
wherein the parts of crosslinking agent are parts by weight based on 100 parts of the
combined weight of the two elastomers.

14. (previously presented). The tire of claim 1, wherein the crosslinking agent is from 2 to 10
parts of tetrahydrocarbyl titanate ester curative, wherein the parts of crosslinking agent are parts
by weight based on 100 parts of the combined weight of the two elastomers.

15. (cancelled).

16. (previously presented). A method for applying a puncture-sealant composition to a tubeless
pneumatic tire, the method comprising:

preparing the puncture-sealant composition of claim 1; and
applying the prepared puncture-sealant composition to at least a portion of an interior
surface of the tire.

17. (cancelled).